

**To:** CN=Steve Vandegrift/OU=ADA/O=USEPA/C=US@EPA[]  
**Cc:** CN=Cindy Paul/OU=ADA/O=USEPA/C=US@EPA;CN=Shauna Bennett/OU=ADA/O=USEPA/C=US@EPA;CN=Sujith Kumar/OU=ADA/O=USEPA/C=US@EPA;ADA Shaw Management@EPA;dgratson@neptuneinc.org[]; N=Shauna Bennett/OU=ADA/O=USEPA/C=US@EPA;CN=Sujith Kumar/OU=ADA/O=USEPA/C=US@EPA;ADA Shaw Management@EPA;dgratson@neptuneinc.org[]; N=Sujith Kumar/OU=ADA/O=USEPA/C=US@EPA;ADA Shaw Management@EPA;dgratson@neptuneinc.org[]; DA Shaw Management@EPA;dgratson@neptuneinc.org[]; gratson@neptuneinc.org[]  
**From:** CN=Charles Beall/OU=ADA/O=USEPA/C=US  
**Sent:** Mon 7/16/2012 1:41:20 PM  
**Subject:** Re: Fw: Pavillion Re: Water Isotopes question  
[8IR235SF Additional Information.pdf](#)  
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(embedded image)

Steve,

As requested, please find attached the additional information to assist in reconciling the raw data with reported data for the Pavillion site (samples collected April 2012).

Specifically, the data found on pages 3 through 39 provide both the uncalibrated (raw) and calibrated (reported) values by sample. In the case of sample 6707-05, the data is on page 11 of the attached PDF.

Charles

Charles E. Beall, Ph.D.  
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From: Steve Vandegrift/ADA/USEPA/US

To: Charles Beall/ADA/USEPA/US@EPA  
Cc: Cindy Paul/ADA/USEPA/US@EPA, Shauna Bennett/ADA/USEPA/US@EPA, Sujith Kumar/ADA/USEPA/US@EPA, ADA Shaw Management@EPA, dgratson@neptuneinc.org  
Date: 07/13/2012 05:09 PM  
Subject: Re: Fw: Pavillion Re: Water Isotopes question

Yes, we will need to be able to reconcile the differences.

Steve Vandegrift, QA Manager  
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Cc: Cindy Paul/ADA/USEPA/US@EPA, Shauna Bennett/ADA/USEPA/US@EPA, Sujith Kumar/ADA/USEPA/US@EPA, ADA Shaw Management@EPA  
Date: 07/13/2012 04:37 PM  
Subject: Re: Fw: Pavillion Re: Water Isotopes question

Steve,

Yes, the differences seen are a result of the measured (uncalibrated) results vs. the calibrated (reported) results.

If additional proof is needed, I can provide it on Monday (assuming Center Point Energy keeps their field workers out of Ada!).

Charles

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To: Charles Beall/ADA/USEPA/US@EPA  
Cc: dgratson@neptuneinc.org, Sujith Kumar/ADA/USEPA/US@EPA, Shauna Bennett/ADA/USEPA/US@EPA, Cindy Paul/ADA/USEPA/US@EPA  
Date: 07/13/2012 04:06 PM

Subject: Fw: Pavillion Re: Water Isotopes question

Charles-

David Gratson is doing an ADQ on the Pavillion April 2012 data. He is having difficulty reconciling the raw data with reported. We need your help ASAP. Let me know when you are available.

Thanks,

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----- Forwarded by Steve Vandegrift/ADA/USEPA/US on 07/13/2012 04:04 PM -----

From: David Gratson <dgratson@neptuneinc.org>  
To: Steve Vandegrift/ADA/USEPA/US@EPA  
Date: 07/13/2012 03:31 PM  
Subject: Re: Pavillion Re: Water Isotopes question

I think they are all different, here a a few others that I checked (see attached spreadsheet).

The first 5 columns are from the final summary spreadsheet, the I added the replicate injections for the samples from the lab spreadsheet, then in row L i provided the final three injection values for the hydrogen isotope ratios. They don't match the values from the 3 replicate injection file.

The raw file is attached and I provided page numbers to compare

Dave

On Fri, Jul 13, 2012 at 1:52 PM, Steve Vandegrift <Vandegrift.Steve@epamail.epa.gov> wrote:  
Are these the only ones or are there others?

Provide me a list of spreadsheet (is this the lab report?) values v. raw data values.

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David Gratson ---07/13/2012 10:56:04 AM---Steve, I have a question about the 8IR235SR\_Raw\_Data.pdf submitted with the

water

From: David Gratson <dgratson@neptuneinc.org>  
To: Steve Vandegrift/ADA/USEPA/US@EPA  
Date: 07/13/2012 10:56 AM  
Subject: Water Isotopes question

Steve,

I have a question about the 8IR235SR\_Raw\_Data.pdf submitted with the water isotopes data: The values are not an exact match of that reported, for example Sample 6507-05 (page 13 of 41 in the raw file), injection 6 is equal to -108.449 for hydrogen isotope ratios. When you compare this to the spreadsheet value (Replicate Injection Check tab), the spreadsheet is equal to -108.46. None of the three last injections (4, 5, 6) are exact matches of the spreadsheet.

Is this difference due to the fact that the raw data is then adjusted by the ChemCorrect software?

Thank you,

Dave

--

David Gratson, CEAC

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"Nature holds the key to our aesthetic, intellectual, cognitive and even spiritual satisfaction." E. O. Wilson.

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